ESTIMATED ENERGY PRODUCTION

Date Range
2003-06-11 TO 2003-11-10

SITE 0101

Site Information

Project:	Idaho State wind
Location:	South of Lava, ID
Site Elevation:	9100FT
Averaging Time:	10 min

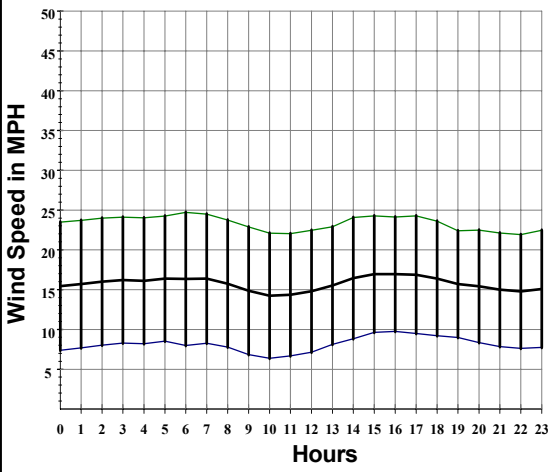
Sensor 1 Information

Channel:	1
Type:	Anemometer
Scale:	1.711000000
Offset:	0.7800
Description:	Anemometer
Height:	66FT

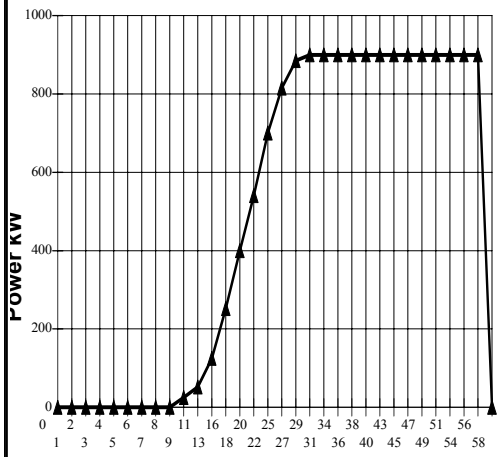
Sensor 2 Information

Channel:	2
Type:	Direction Vane
Scale:	1.000000000
Offset:	0.0000
Description:	Direction Vane
Height:	66FT

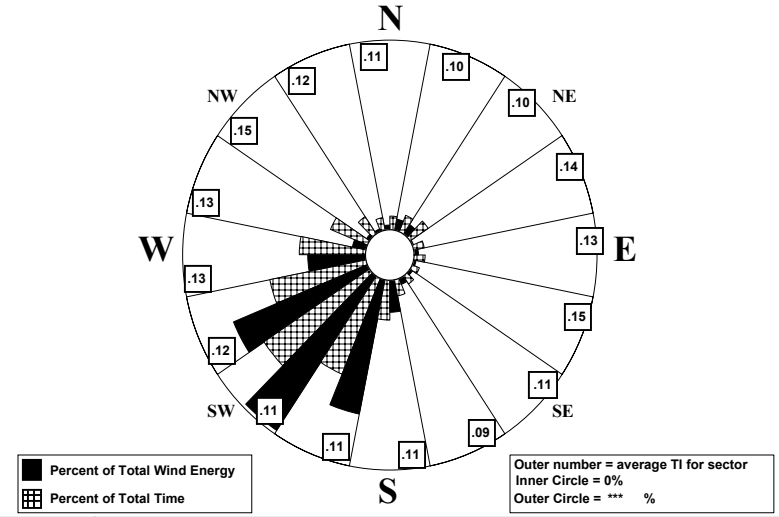
Diurnal Wind Speed Pattern



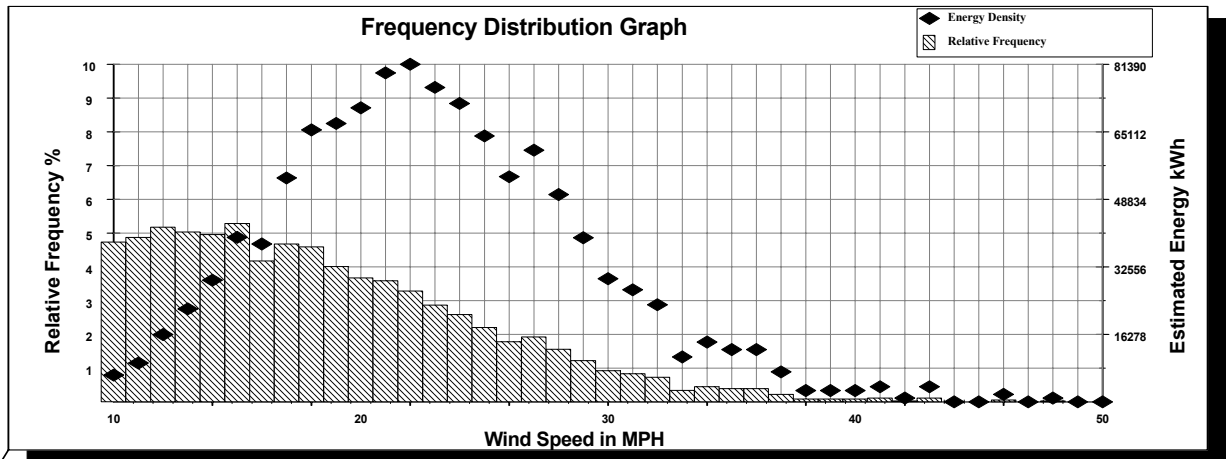
Power Curve for 900 kW Series



WIND ROSE GRAPH



Frequency Distribution Graph



Statistics

Estimated Energy Output	**1155129 KWH**
Calculated Air Density	**0.922 kg/m3**
(temperature data and pressure based on elevation)	
Average Wind Speed	**15.7 MPH**
Average Turbulence Intensity	**0.12**
Mean Energy Wind Direction	**SW**
Mean Wind Direction	**SW**
Capacity Factor	**0.36**
Average Temperature	**0.0 F**
Turbine Manufacturer	**Enron Wind**
Turbine Model	**900 kW Series**
Turbine Rating	**900.0 kW**
Number of Turbines	**1**
Estimated Annual Production	**2821001 KWH/Year*** **

Total hours = 3672 Total hours used in Calculations = 3587 Percent Data used = 97.6